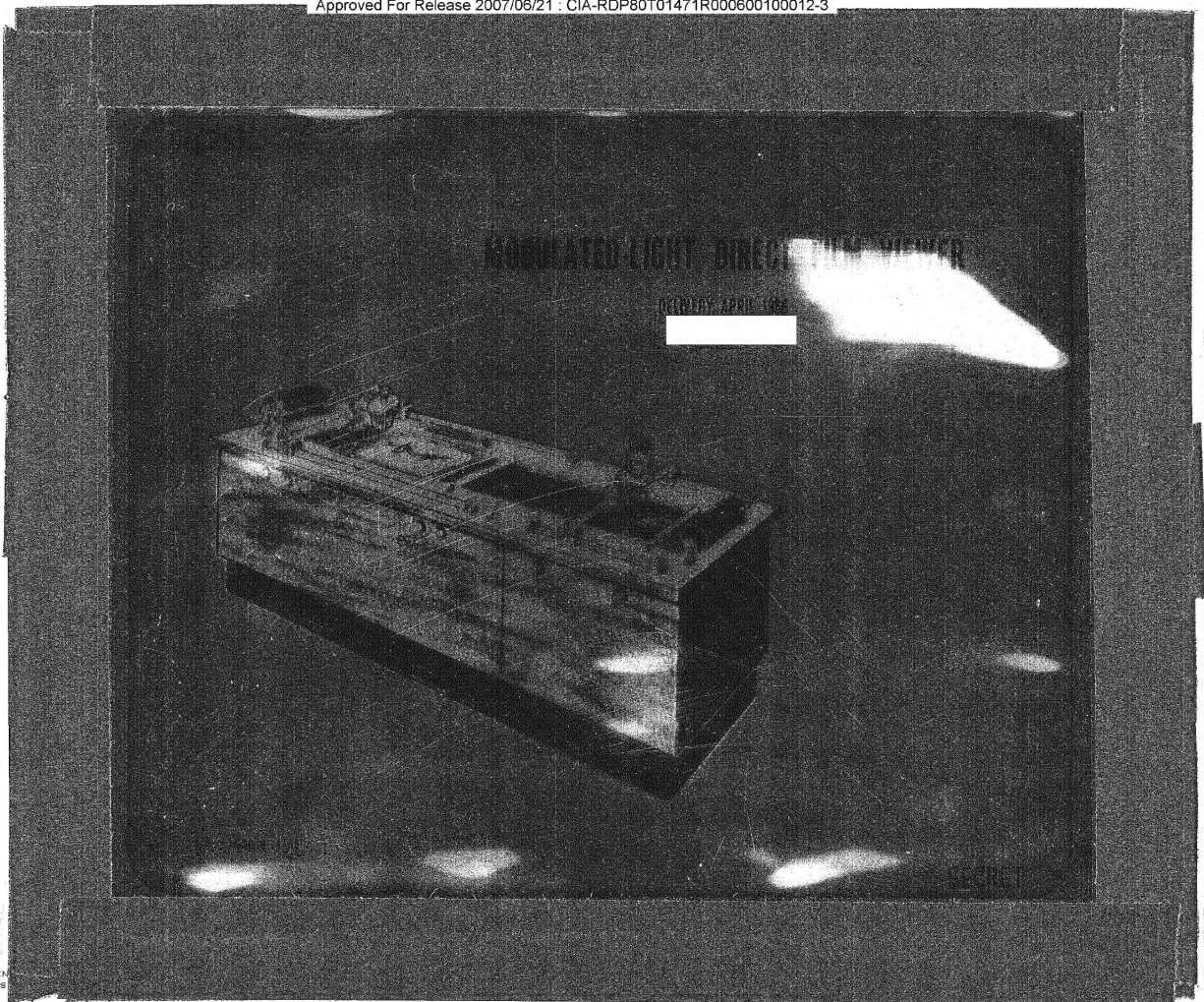


SECRET

CONTROL
K-0038 (465)
NO. 1
REPRODUCTION OF THIS
DOCUMENT IN WHOLE OR
PART IS PROHIBITED
EXCEPT WITH THE PER-
MISSION OF THE OFFICE
OF ORIGIN.



MODIFIED LIGHT DIRECT VIEW

DELIVER APRIL 1964

25X1

SECRET

SECRET

STEREO CHIP COMPAPATOR

AVAILABLE

25X1

25X1



SECRET

SECRET

25X1

V6 K-0039

8.

STEREO CHIP COMPARATOR

25X1

This prototype stereo chip comparator (Figure 88) was installed at the NPIC in July 1964. It is designed with 5- by 5-inch stages which accept the proposed NPIC 4- by 5-inch film chip oriented in either direction. This instrument simultaneously measures the X and Y coordinates of any point on the film plane with respect to a chosen reference. The system is capable of resolving to .13 micron least-

count. Linear measurements are obtained through the output of an X- and Y-axis interferometer, utilizing the wavelength of an Hg 198 lamp (5461A^o). The comparator is designed to operate on-line with the UNIVAC 490 system. The prototype has been evaluated and production models are under contract at a cost of [REDACTED] each.

25X1

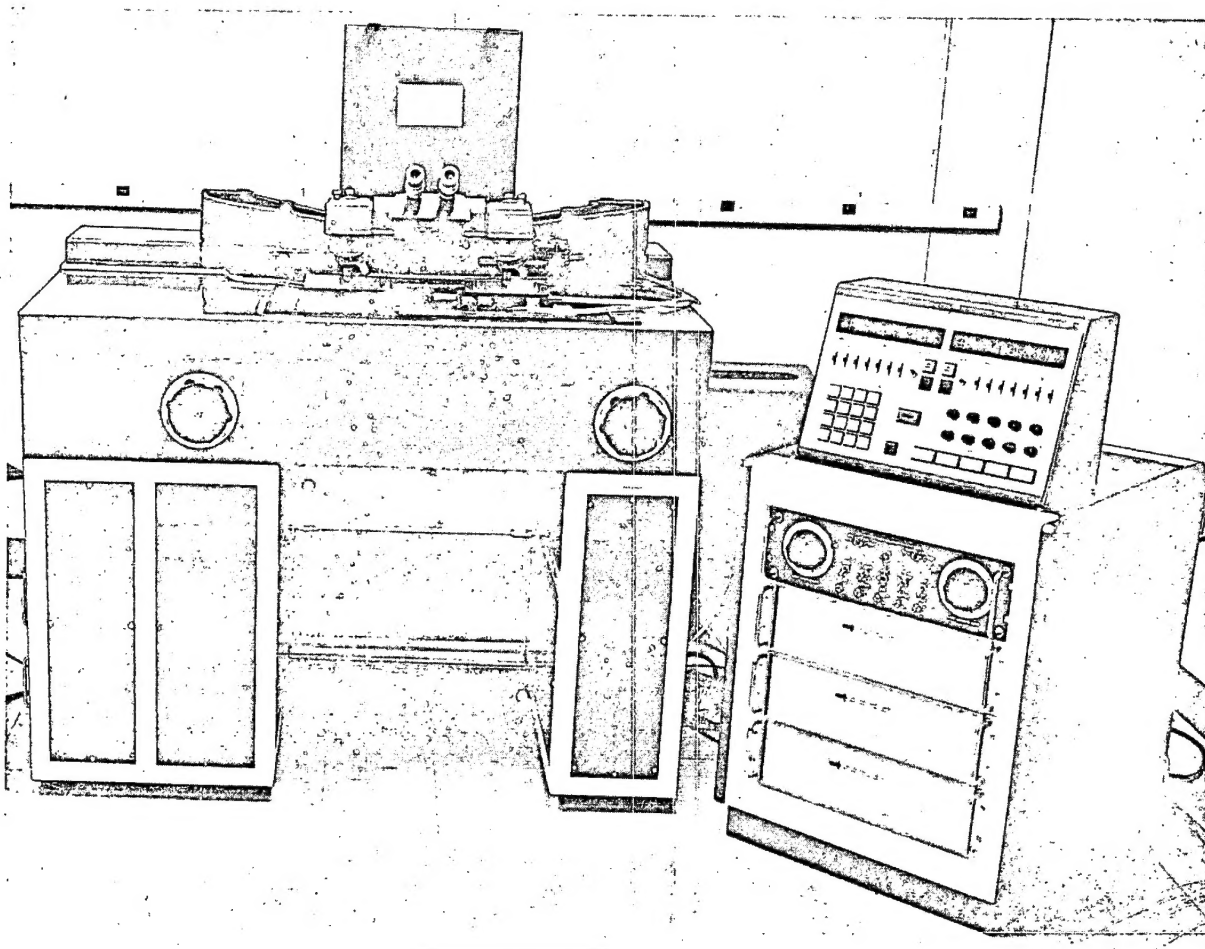


FIGURE 88. [REDACTED] STEREO CHIP COMPARATOR.

NPIC J-6991 (3/65)

25X1

SECRET

25X1